KPS Form TO ISS (Hev. 6.05)

## United States Department of the Interior National Park Service

087-4240-0019

## National Register of Historic Places Registration Form

This form is for use in nominating or requesting determinations of eligibility for Individual properties or districts. See instructions in Guldelines for Completing National Register Forms (National Register Bulletin 16). Complete each item by marking "x" in the appropriate box or by entering the requested information. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, styles, materials, and areas of significance, enter only the categories and subcategories listed in the instructions. For additional space use continuation sheets (Form 10-900a). Type all entries.

(Form 10-300a). Typo an onthos.				
1. Name of Property				
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	on Old Town Bowst			
2. Location	an and an ingerior control printing over 5 and one destriction of the 1999 of		THE RESIDENCE OF THE PROPERTY	
street & number US Highway 59		on the comment of the company of the comment of the		not for publication
city, town Oskaloosa				x vicinity
state Kansas code	KS co	ounty Jefferson	code 87	zip code 66066
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3. Classification		намення до 1 муниципна и 1 м (Одрживан I и убликуру при 1 для на Солоно Солоро Солоро (Одржина и Дорган		
Ownership of Property	Category of Pr	openy	Number of Reso	urces within Property
private	building(s)		Contributing	Noncontributing
X public-local	district			buildings
public-State	sito			sites
public-Federal	X structure		1	structuros
	object			objects
			1	Total
Name of related multiple property lis-	ting:		Number of contri	buting resources previously
Metal Truss Bridges in Kansas				onal Register0
	A T			
4. State/Federal Agency Certifi	cation		ota (desta, destruerable entre estrene a transcer de mesona transce departura, nuel	
In my opinion, the property me Signature of certifying official  State or Federal agency and bureau	doos not m	eet the National Reg	gistor criteria. L. Seo (	Continuation shoot.  2702-16,1989  Dato
In my opinion, the property me	ets does not m	eet the National Reg	ister criteria. See c	continuation shoet.
Signature of commenting or other office	ial	+	a managama ana ang managama ang	Date
State or Federal agency and bureau				
5. National Park Service Certific	cation	nengarin er dicher under gelanne Gulderlande des gewaren gescherbaren.	NAME OF STATE OF STAT	
, hereby, certify that this property is:	The second secon	in dan lahib 74 dan lahih keciling Bellomento da 2 dan melang 200 milandahan		A CONTRACTOR OF THE PROPERTY O
entered in the National Register.				
See continuation sheet.				
determined eligible for the National	al			
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National Register.	200			
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removed from the National Registe				
other, (explain:)				
	STATE OF THE PARTY			
		Signature of th	o Keeper	Date of Action

6. Function or Use			
Historic Functions (enter categories from instructions)	Current Functions (enter categories from instructions)		
Transportation: Road Related (Vehicular): Bridge	Transportation: Road Related (Vehicular): Bridge		
7. Description			
Architectural Classification (enter categories from instructions)	Materials (enter categories from instructions)		
Other: Bowstring Pony Truss	foundationwalls		
	roof		

Describe present and historic physical appearance.

The Jefferson Old Town Bowstring Truss, erected in 1875, is 48 feet long and 14 feet wide. It is located approximately 8 feet above the level of the water course.

The members of a truss bridge are designated either as chord members or web members. Chord members are those mainly defining the outlines of the structure and they are termed lower or upper chord members depending on whether they are found at the bottom or the top of the structure. Members between the chords are web members. They are called posts or ties if they sustain compression or tension respectively.

The Jefferson Old Town Bowstring Arch Truss is a tubular wrought iron design, patented on July 30, 1865 by Zenas King. His bridges were fabricated from flat plates rivited to channel iron.

The bridge is a tied arch with diagonal webs serving as bracing. The diagonal rods are threaded at both ends and pass through the upper and lower chord and are attached to the ends by nuts. The verticals consist of threaded wrought iron star bars which are attached to the upper and bottom chord in a similar manner with nuts. Deck beams, supporting the road, sit on top of the bottom chord members at the panel points.

The bridge was relocated to the present site in 1974. It is located over a small water course in a recreated historical village site. Access to the bridge is pedestrian only and wood posts are located at each approach. The site integrity of the bridge has been affected by the move but the structural integrity remains intact. The relocation has been accomplished sympathetically.

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8. Statement of Significance		
Certifying official has considered the significance of this proper nationally	ty in relation to other properties: statewide locally	
Applicable National Register Criteria A B x C	D	
Criteria Considerations (Exceptions)	D DE DF DG	
Areas of Significance (enter categories from instructions)  Engineering	Period of Significance 1875	Significant Dates 1875
Transportation	1875	1875
	Cultural Affiliation n/a	
Significant Person n/a	Architect/Builder King Iron Bridge Company	

State significance of property, and justify criteria, criteria considerations, and areas and periods of significance noted above.

The great evolution of truss bridge construction began in the United States soon after the publication of Squire Whipple's historic work on stresses in 1840. Prior to this the design work was essentially that of trial and error, experience and judgement. He was also one of the first in our history to manufacture and erect his iron bridge designs. The Whipple bowstring dotted the countryside. As the ultimate compliments was imitation, his plans were widely copied with "improvements" that would protect the competitor from patent infringement. When his patent expired in 1869, hundreds more appeared many even copied down to the last detail.

Although King Iron Bridge Company did not organize under that name until 1871, Zenas King was building bridges in Northern Ohio as early as 1858. By 1884 the company boasted the largest highway bridge works in the United States. In addition to his Cleveland, Ohio home base, King opened a plant in Iola, Kansas in 1871, and manufactured a number of bridges. The city voted bonds to build the plant for him as they thought it would be a significant benefit to the city. King had also been courted by the city of Topeka. This courting continued after the opening of the Iola plant. King realized that the transportation opportunities available in Topeka were better than those of Iola and moved. The city defaulted on the bonds, as would Topeka a short year later, when King moved out of Topeka and consolidated his company in Cleveland.

The flat plates and channel iron used in King bridges were less expensive than the other tubular top chords then available and he was able to underbid his competitors throughout the country. By 1874 their catalog claimed an annual number of 250-300 tubular arches built with over 2,700 in use by that year. Both pony and through trusses were manufactured.

The Old Jefferson Town bridge is one of only nine remaining bowstring arch pony trusses remaining in Kansas, and one of three remaining the King patent.

X See continuation sheet

Victor C. Darnell, American Bridge Building C Society for Industrial Archeology Occasi David Weitzman, Traces of the Past: A Field G New York: Charles Scribner's Sons, 1980. James L. Cooper, Iron Monuments to Distant Po F.H.W.A., Indiana Dept. of Highways, Ind N.P.S., 1987. Dan G. Deibler, A Survey and Photographic Inv in Virginia, Charlottesville: Virginia H Research Council, 1975. Craig Daniels, "Historic Town Gets Span," Top Virginia Vorhees, "Bowstring Bridge in Old To August 29, 1974.	onal Publication 4, 1984. uide to Industrial Archeology, sterity, DePauw University, iana Dept. Natural Resources, entory of Metal Truss Bridges ighway & Transportation eka Journal, Dec. 12, 1974.
has been requested  previously listed in the National Register  previously determined eligible by the National Register  designated a National Historic Landmark  recorded by Historic American Buildings  Survey #  recorded by Historic American Engineering	rimary location of additional data:  State historic preservation office Other State agency Federal agency Local government University Other pecify repository: Kansas State Historical Society
10. Geographical Data	
Acreage of propertyless than one acre	
UTM References  A 1 1 5 3 0 0 6 8 0 4 3 4 2 8 0 0 B C C C C C C C C C C C C C C C C C	
	See continuation sheet
Verbal Boundary Description The nominated property is located on the NW 1 section 4, township 10S, range 19E, on a trace northeast corner is represented by the northeast Beginning at the northwest, 48' northeast, and	t measuring 48' x 14' whose ast corner of the bridge.
Boundary Justification	
The boundary includes only that area that is the nominated property.	historically associated with
	See continuation sheet
11 Form Prepared By	
11. Form Prepared By	
name/title larry Jochims organization Kansas State Historical Society	dota September 20, 1989
etreet & number 120 M 10+b	telephone (012) 200 2051
street & number 120 W. 10th	
city or town Topeka	state Zip code _66612

9. Major Bibliographical References

United States Department of the Interior National Park Service

## National Register of Historic Places Continuation Sheet

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The bridge was originally erected in 1875 across Rock Creek, 1.5 miles north of Meriden. Sometime in the 1950s it was relocated to a location, on a road now vacated, 1.5 miles south and 4 miles east of Valley Falls. In 1974, Old Jefferson Town, "an historical replica of an early-day Jefferson county town," acquired the structure and moved it for the third time to their site in the city of Oscaloosa.

Although the final move has affected the integrity of the structure in that only pedestrian traffic is allowed, it does cross a small stream and is being preserved. It can serve as a model as to what can be done to save a structure when removal is deemed necessary. In some ways, the location to such a park setting is an admirable method of raising the public awareness of the significance of our transportation and engineering heritage. It remains the example of a bridge fabricated and sold by a prolific out-of-state bridge builder. It still stands as a monument to the early settlers in the state and their striving for economic progress, it is worthy of listing.

The Kansas Department of Transportation (KDOT) carried out a statewide inventory of historic bridges between 1980 and 1983. The bridges to be included were identified through computer printouts developed by KDOT, from information supplied by the counties (since almost all of the historic bridges were located on secondary rather than the primary road system), and by direct observation by field personnel. All bridges were inspected by KDOT personnel to verify the data on file. That information was jointly evaluated by representatives of KDOT, Kansas State Historical Society, and the State Historic Preservation Officer.

Each structure was evaluated using a points rating system adapted from the points evaluation rating developed by the Ohio Department of Transportation and Ohio Historic Preservation Office. Consideration was given to areas such as age, builder, number of spans, length, special features, history, integrity, surviving numbers, and preservation potential.

In many instances there is little information about individual structures. Often bridge plaques which may have contained information have been removed, or the county's records are not complete or have been destroyed. Due to the large numbers of similar structures there is often little to choose from in differentiating among individual bridges other than condition and the likelihood of preservation.

The purpose of the KDOT study and subsequent evaluation was to identify a representative selection of bridges of each class. Through this approach KDOT and KSHS hope to preserve for posterity some examples of each type.



